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ABSTRACT

This workbook focuses on mathematics related to football, and is designed to work with student interest in the sport. A large portion of the document relies on information that is to be obtained by the teacher from the National Football League (NFL) teams, such as current player rosters. The workbook is designed to be a motivating skill-builder in both mathematics and language arts. (MP)

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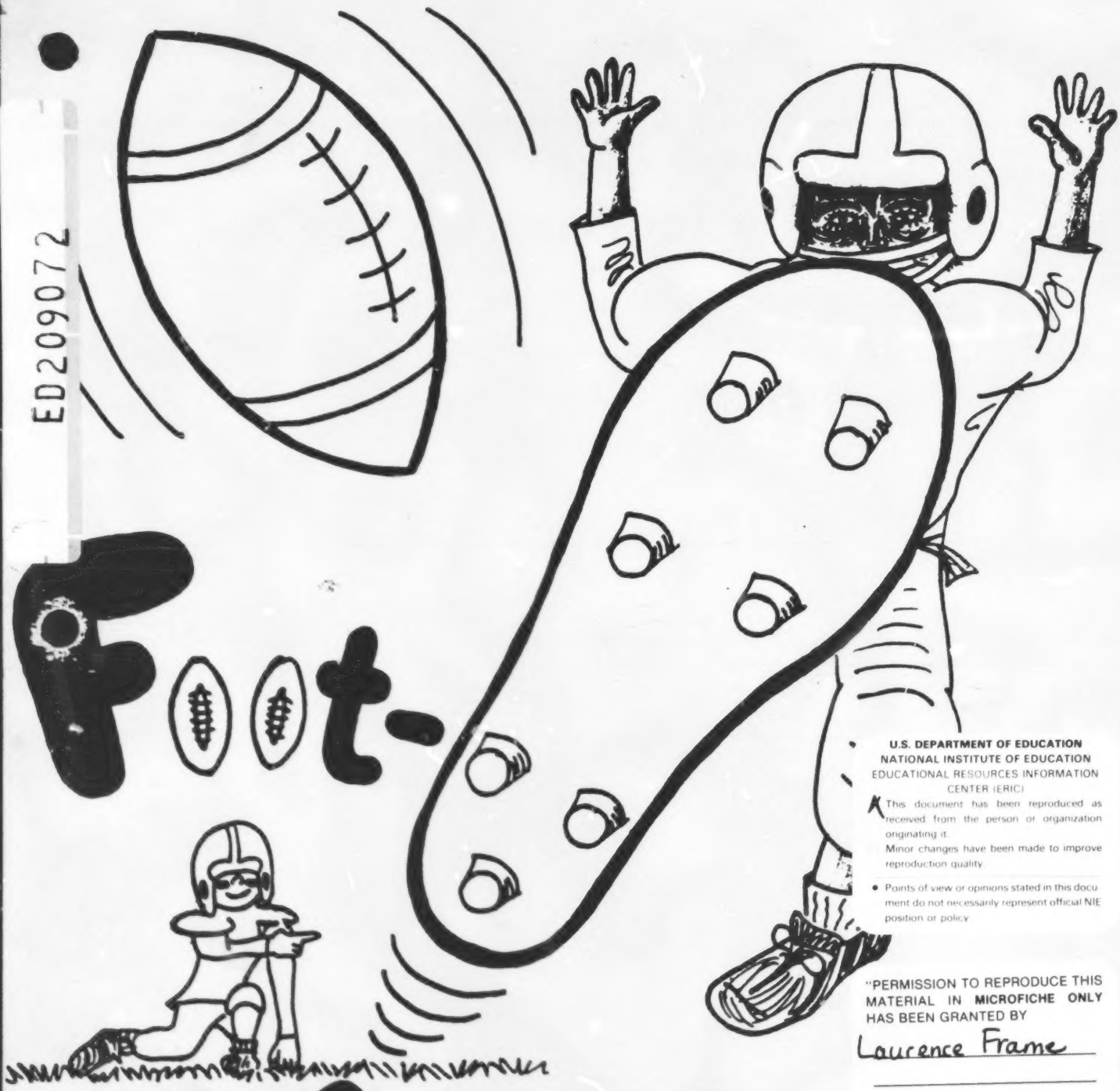

Foot-Matics

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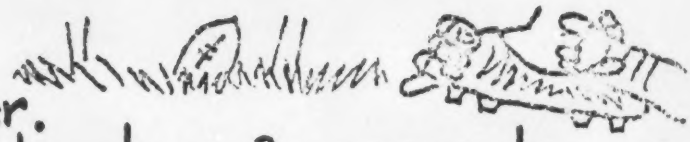


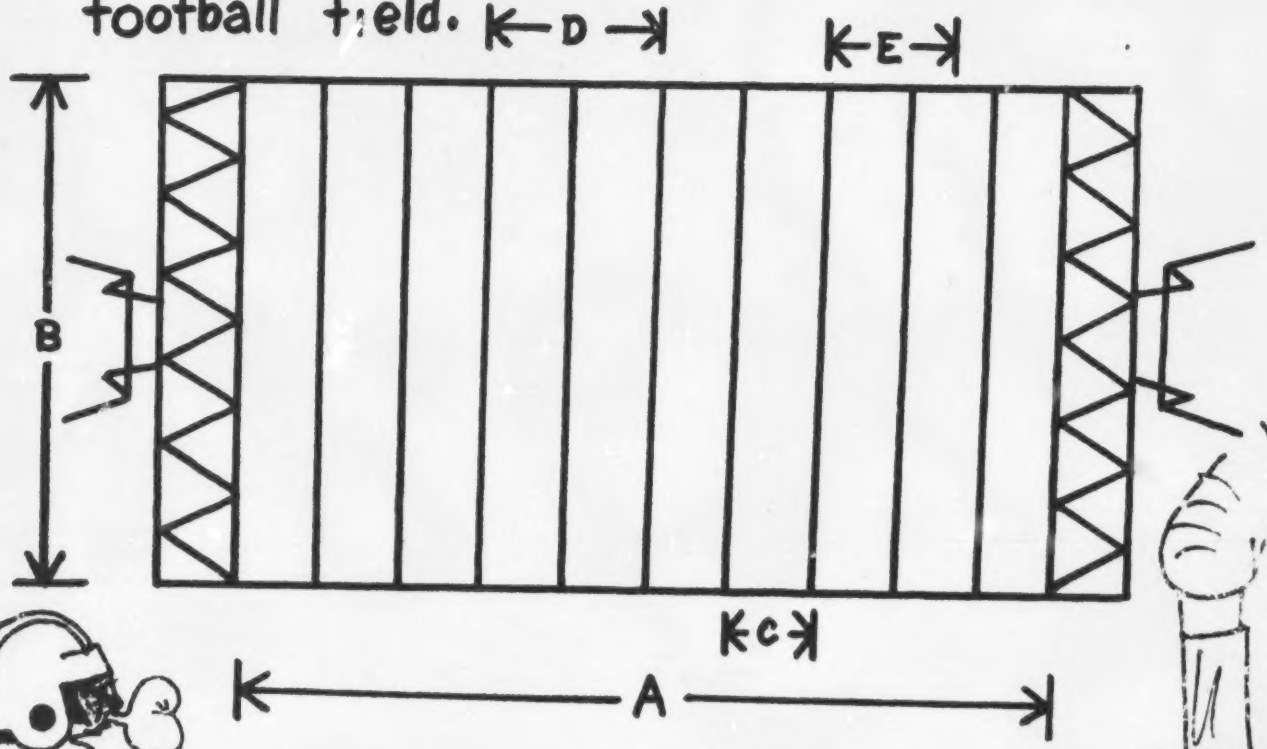
1. Get an NFL roster. Write down each player's name by his NUMBER. Start with the player with the smallest number. (Use another sheet if necessary.)

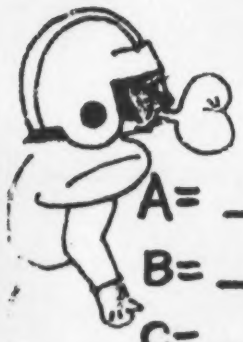
Team Name _____ Student Name _____

(NO.)	NAME LAST, FIRST	NO.	NAME	NO.	NAME

2. Add all the players' numbers from problem #1. Write your answer _____.

3. Put the correct measurements in this football field.





A= _____ yards D= _____ y---.

B= _____ yds. E= _____ y---.

C= _____ yds.

4. Change the above measures to feet.

A= _____ feet D= _____ ---.

B= _____ ft. E= _____ ---.

C= _____ ft.

5. Change the above to inches. (in.)

A= _____ in. B= _____ in. C= _____ in. D= _____ in.

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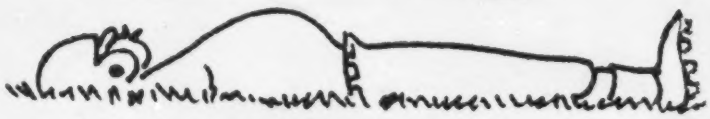
6. Change the measurements in problem #3 to meters. (Round off to the closest meter.)

A=_____m D=_____

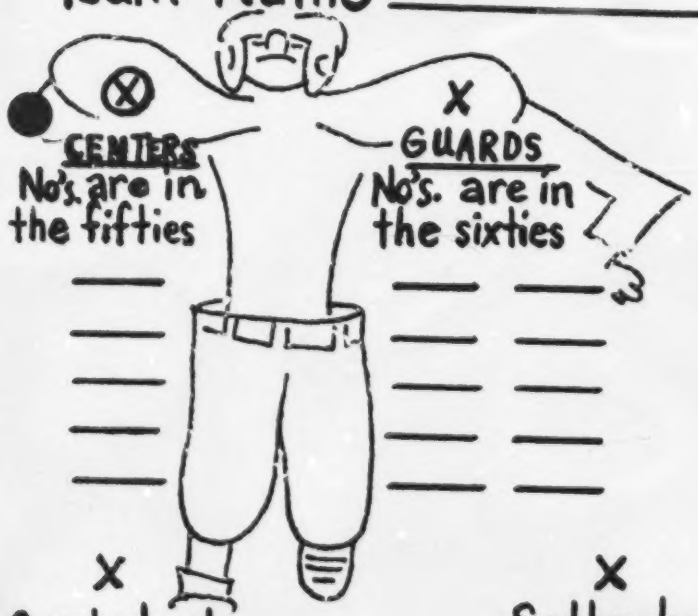
B=_____m E=_____

C=_____



7. Write the numbers of the players on an NFL team at each position. (Use a roster) (You may put players in their correct place if their no. is out of order.)

Team Name _____



CENTERS
No's. are in the fifties

_____
_____
_____
_____
_____

GUARDS
No's. are in the sixties

_____ _____
_____ _____
_____ _____
_____ _____
_____ _____

TACKLES
No's. are in the seventies

_____ _____
_____ _____
_____ _____
_____ _____
_____ _____

ENDS
No's. are in the eighties and nineties

_____ _____
_____ _____
_____ _____
_____ _____
_____ _____

Quarterbacks
No's. are from zero to the teens

_____ _____
_____ _____
_____ _____
_____ _____
_____ _____

Setbacks
No's. are in the twenties, thirties, forties, fifties

_____ _____
_____ _____
_____ _____
_____ _____

kickers

_____
_____
_____
_____
_____

WIDE RECEIVERS

_____
_____
_____
_____
_____

-3-

8. Predict next week's NFL winning teams. Use the "Pick a Winner" football sheet, page 38.

9. Keep a record of the games you have guessed from #8.

TOTAL GAMES GUESSED CORRECT (WINS)	TOTAL GAMES GUESSED WRONG (LOSSES)	PERCENTAGE OF CORRECT GUESSES	SPREAD OF POINTS DIFFERENCE (#14)

10. Draw and label some offensive formations.

11. Draw some plays that you know.

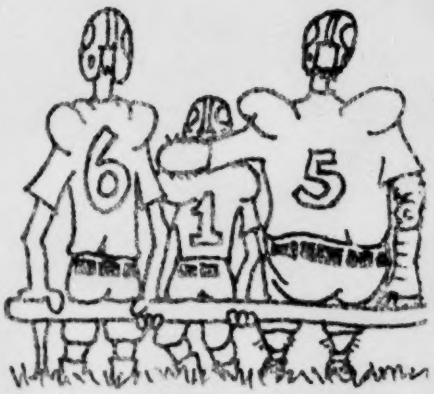
12. Draw and label some defenses.

13. Look at problem #1. Write down each player's number and spell the word for each number.

No.	Number Word	No.	Number Word	No.	Number Word

14. Ordinal Numbers: Write the ordinal numbers for the four downs in football. Then write their abbreviations.

NUMBER (WORD)	ABBREVIATION



15. Write the number, the ordinal number word and its abbreviation for the numbers in problem #1.

NO.	NUMBER (WORD)	ABBREV.	NO.	NUMBER (WORD)	ABBREV.	NO.	NUMBER (WORD)	ABBREV.

16. Write each player's name by his age. Begin with the youngest (smallest number) age. Write each player's birthdate by number. Then spell it out. Use a roster of an NFL team. (Use an extra sheet if necessary.)

TEAMNAME _____

PLAYER LASTNAME, FIRST	AGE	BIRTHDATE IN NUMBERS	BIRTHDATE SPELLED OUT (MONTH) (DAY) (YEAR)

-7-

17. Write the name and age of a young player, a younger player, and the youngest player. (Work from problem # 16.)

	PLAYER NAME	AGE	BIRTHDATE IN NO's.
YOUNG			
YOUNGER			
YOUNGEST			

18. Do the same for an old player.

OLD			
OLDER			
OLDEST			

19. Repeat exercise #16 only fill in a chart for the students in your class. Use another chart from p.9.

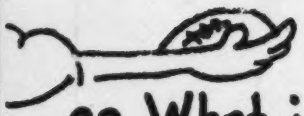
20. Repeat exercises #17, 18 only fill in a chart for the students in your class.

	STUDENT NAME	AGE	BIRTHDATE IN NO's.
YOUNG			
YOUNGER			
YOUNGEST			
OLD			
OLDER			
OLDEST			

21. How much younger are you from the youngest player? ____ yrs.

22. How much younger are you from the oldest player? ____ yrs.

STUDENT	AGE	BIRTHDATE IN NUMBERS	BIRTHDATE SPELLED OUT



23. What is the difference in age between the oldest and youngest player? _____ years.

24. What is the difference in age between the oldest and youngest student? _____ years.

25. What is the difference between the youngest player and the youngest student? _____ years.

26. What is the difference between the oldest player and the oldest student? _____ years.

27. What is the difference between the oldest player and the youngest student? _____ years.

28. What is the difference between the oldest student and the youngest player? _____ years.

29. Write the months of the year and their abbreviations, in order.

	(MONTH NAME)	(ABBREVIATION)		(MONTH NAME)	(ABBREVIATION)
1			7		
2			8		
3			9		
4			10		
5			11		
6			12		

30. Make a birthdate chart of the months that the players were born in. (Color in the blocks.)

	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
12												
11												
10												
9												
8												
7												
6												
5												
4												
3												
2												
1												

31. Which month were most of the players born in?

_____.

32. Which month were the fewest players born in?

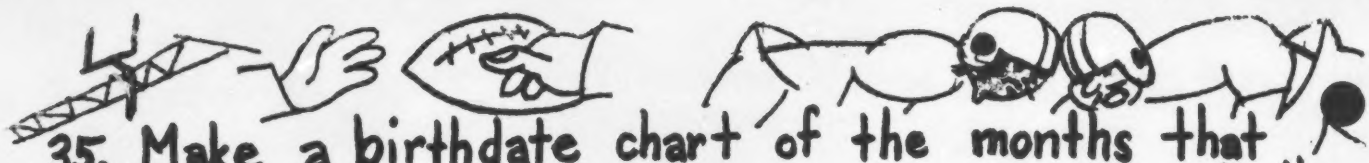
_____.

33. How many players were born in your month?

_____.

34. Check back to problem #16. Write the names and dates of the players born on the same month and day.

PLAYER	PLAYER	DATE



35. Make a birthdate chart of the months that the students in our class were born in. (Color in the blocks.)

No's.	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
14												
13												
12												
11												
10												
9												
8												
7												
6												
5												
4												
3												
2												
1												

36. Which month were most of the students born in?

_____.

37. Which month were the fewest students born in?

_____.

38. How many students were born in your month?

_____.

39. Check back to page 9. Write the names and dates of the students born on the same month and day.

STUDENT	STUDENT	DATE

40. List the players who were born on a holiday. Write the holiday after the player.

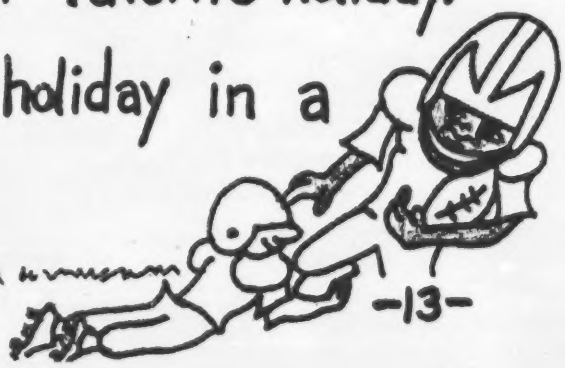
PLAYER	HOLIDAY BORN ON

41. List the students who were born on a holiday. Write the holiday after the student.

STUDENT	HOLIDAY BORN ON

42. Write a report about your favorite holiday.

Write a report about a holiday in a foreign country.



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43. How old are all the ages of the players added together? _____ years. (yrs.)
44. What is the average player age? _____ yrs.
45. What thing in history either living or non-living in the world can you compare the ages of # 43 to? _____.

46. How old are all the ages of the students added together? _____ years.
47. What is the average student age? _____ yrs.
48. Are you above or below the average? _____.
49. What thing in history either living or non-living in the world can you compare the ages of #46 to?

_____

50. Make a story using the two things you "created" from answer # 45 and answer # 49!!

51. Name the four seasons of the year and the months that go with them. Draw a football around the season that football starts in.

SEASON _____ _____ _____ _____

MONTHS: _____ _____ _____ _____

_____ _____ _____ _____

_____ _____ _____ _____

_____ _____ _____ _____

52. Which season were most of the players born in?

_____.

53. Which season were most of the students born in? _____.

54. Which season were you born in?

_____.

55. Compare birthdate charts of the players and students. Write how the charts are alike.

_____

_____.

56. Write how the charts are different.

_____

_____

_____.

57. Fill in a box score on an NFL game.

TEAM	1	2	3	4

58. By how many points did the winners win? _____.

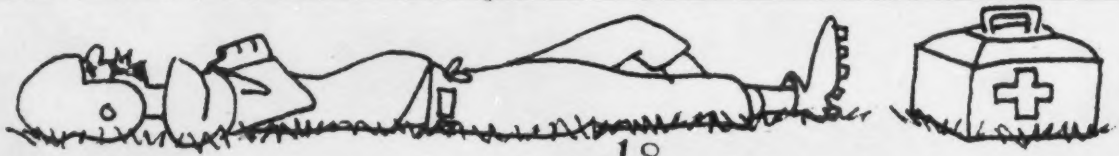
59. Write in ordinal numbers, the quarter where both teams scored the most points_____.

60. Write in ordinal numbers, the quarter that the teams scored the fewest points_____.

61. Write down the name of the player who scored the longest touchdown_____ ____yds.

62. Fill in the boxes ONLY for the team that had the MOST. Also compute how much more they had. Compute the averages of only the boxes checked.

	TEAM _____	AVERAGES	TEAM _____	AVERAGES
First (first) Downs				
Rushes-Yards (RUSHES) (YDS.)		✓		✓
Passing-Yards (PASSING) (YDS.)		✓		✓
Return-Yards (RETURN) (YDS.)				
Passes (PASSES)				
Punts (PUNTS)		✓		✓
Fumbles-lost				
Penalties-yards		✓		✓



(Do this from #62) (statistics from #62 game)

63. Fill in the boxes for the player having the MOST.

	PLAYER'S NAME	TEAM	PLAYS IN	YDS. GAINED	AVERAGE
Rushing					
Receiving					
Passing					

64. How many "yards rushing average" was the above player more than his closest competitor? _____ yds.

65. How many "yards receiving average" was the above player more than his closest competitor? _____ yds.

66. How many more "yards passing average" was the above player more than his closest competitor? _____ yds.

67. Convert the following statistics with the team leader in problem #62 to feet.

a. yards rushing = _____ feet

b. yards passing = _____ ft.

c. yards returned = _____ ft.

68. Convert the answers to #67 into inches!

a. yards rushing = _____ inches

b. yards passing = _____ in.

c. yards returned = _____ in.

69. Change the answers of # 67 to approximate mete

a. yards rushing = _____ meters

b. yards passing = _____ m

c. yards returned = _____ m

70. Keep a weekly TEAM STANDING of the NFL.

PLEASE USE +++ PENCIL

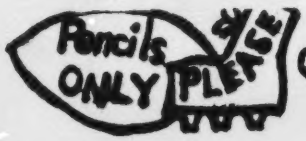
CONFERENCE _____

DIVISION _____

TEAM	WINS	LOSSES	TIES	PERCENTAGE	POINTS SCORED	OPP. POINTS	PLACE	GAMES BEHIND

DIVISION _____

DIVISION _____



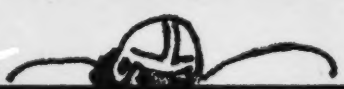
CONFERENCE _____

DIVISION _____

TEAM	W	L	T	PERCENT. %	PTS.	OPPONENTS POINTS	PLACE	GAMES BEHIND

DIVISION _____

DIVISION _____



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71. Keep weekly records of players from your NFL team.

TEAM _____

(RUSHING)

PLAYER	RUSHES	YDS. RUSHED	AVE. YDS. PER RUSH	TOUCH-DOWNS	TOTAL POINTS	

(PASSING)

PLAYER	PASSES ATT.	PASSES COMPLETE	PERCENT. COMPLETION	AVE. YDS. PER PASS	INTER-CEPTED	PASSES FOR T.D.	TOTAL PASS YDS.

(RECEIVING)

PLAYER	RECEPTIONS	TOTAL YARDS	AVE. YDS. PER RECEPTION	TDS.	

(PUNTING)

PLAYER	PUNTS	TOTAL YARDS	AVERAGE YARDS PER KICK (PUNT)

(KICKING)

PLAYER	FIELD GOALS	TOTAL YDS. (FG)	AVERAGE FG KICK	POINTS AFTER TD's	TOTAL POINTS

72. Keep weekly records of your favorite NFL team!

PENCILS PLEASE

Team _____

FIRST DOWNS	YARDS RUSHING	YARDS PASSING	YARDS RETURNED	FUMBLES	FUMBLES LOST	PENALTIES	PENALTY YARDAGE

73. List the NFL teams that finished in the standing place you wanted them to finish.

_____ _____ _____

74. List the NFL teams that did not finish the way you wanted them to. _____ _____

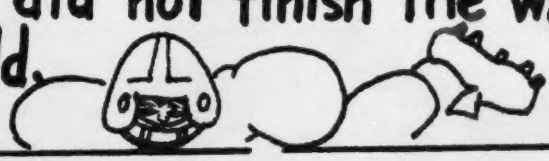
_____ _____ _____

75. List the NFL teams that finished the way you predicted they would.

_____ _____ _____

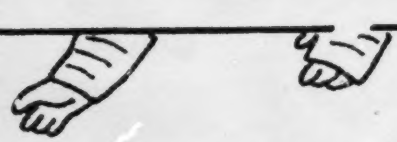
_____ _____ _____

76. List the NFL teams that did not finish the way you predicted they would.



_____ _____

_____ _____



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77. Get an NFL roster.
Write down each player's name then write his WEIGHT(wt.) in pounds(lbs.). Start with the player with the lightest weight.

Team Name _____

NAME LAST, FIRST	WT.	NAME	WT.	NAME	WT.

78. Who is the lightest player? _____ _____ lbs.

79. Who is the heaviest player? _____ _____ lbs.

80. What is the average weight of all the players? _____ lbs.

81. List the top 15 heaviest players and change their weight to ounces (oz.), grams (g), and kilograms (kg)

NAME	POUNDS (LBS.)	OZ.	g	kg

82. Write the name and weight of a light player, a lighter player, and the lightest player.

	NAME	WT.
A LIGHT PLAYER		
A LIGHTER PLAYER		
THE LIGHTEST PLAYER		

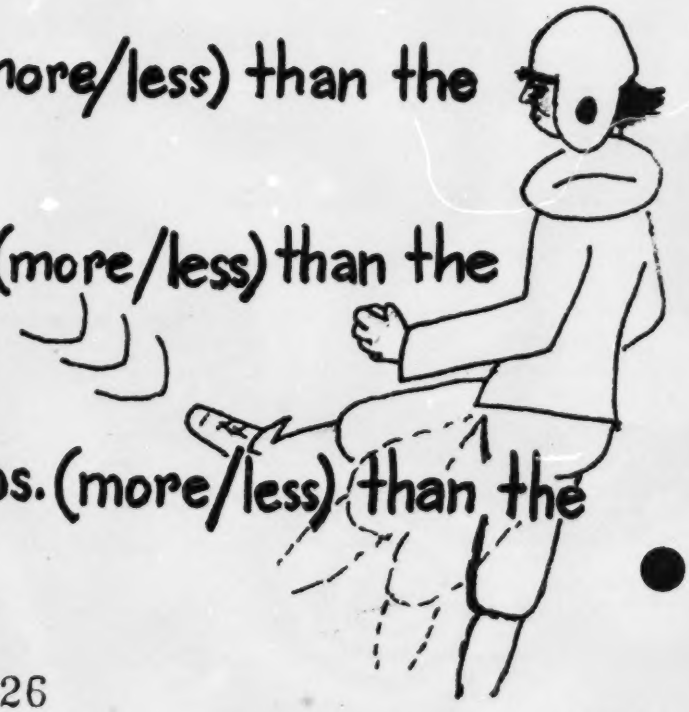
83. How many more pounds does the light player weigh compared to the lighter? ____ lbs.

84. How many more pounds does the light student weigh compared to the lightest? ____ lbs.

85. I weigh _____ lbs. (more/less) than the light player.

86. I weigh _____ lbs. (more/less) than the lighter player.

87. I weigh _____ lbs. (more/less) than the lightest player.



88. Write the name and weight of a heavy player, a heavier player, and the heaviest player.

	NAME	WT.
A HEAVY PLAYER		
A HEAVIER PLAYER		
THE HEAVIEST PLAYER		

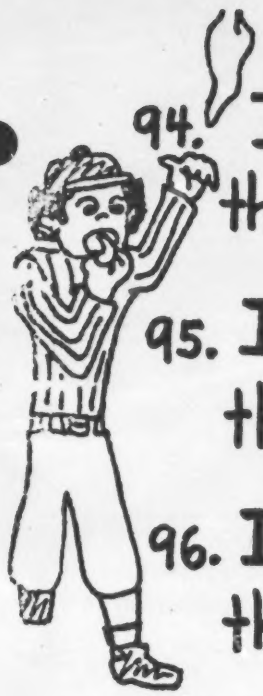
89. How many more pounds is the heavier player than the heavy one? _____ lbs.

90. How many more pounds is the heaviest player than the heavier? _____ lbs.

91. How many more pounds is the heaviest player than the heavy? _____ lbs.

92. How many pounds LESS is the heavier to the heaviest? _____ lbs.

93. How many pounds less do you weigh compared to the heaviest player? _____ lbs.



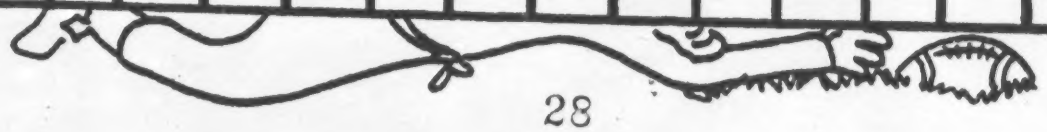
94. I weigh _____ lbs. (more/less) than the heavy player.

95. I weigh _____ lbs. (more/less) than the heavier player.

96. I weigh _____ lbs. (more/less) than the heaviest player.

97. Make a weight chart of the players. Color in the blocks.

NO. OF PLAYERS	150-160 lbs.	161-170	171-180	181-190	191-200	201-210	211-220	221-230	231-240	241-250	251-260	261-270	271-280	281-290	291-300
18															
17															
16															
15															
14															
13															
12															
11															
10															
9															
8															
7															
6															
5															
4															
3															
2															
1															



98. Which weight level has the fewest players? _____ _____
(wt.) (no. of players)

99. Which weight level has the most players? _____ _____
(wt.) (no.)

100. How many players are in the lightest weight level? _____

101. How many players are in the heaviest level? _____.

102. What fraction of all the players on the team were in the weight level with the most players? (Use your answer from #99 to help you.) ___

103. What percentage (%) of all the players on the team were in the weight level with the most players? (Use your answer from #102 to help you.) _____%

104. Fill in the percentage of players found at each weight level: (Don't forget to use the % sign)

150-160 lbs. ___% 161-170 _____ 171-180 _____

181-190 _____ 191-200 _____ 201-210 _____

211-220 _____ 221-230 _____ 231-240 _____

241-250 _____ 251-260 _____ 261-270 _____

271-280 _____ 281-290 _____ 291-300 _____

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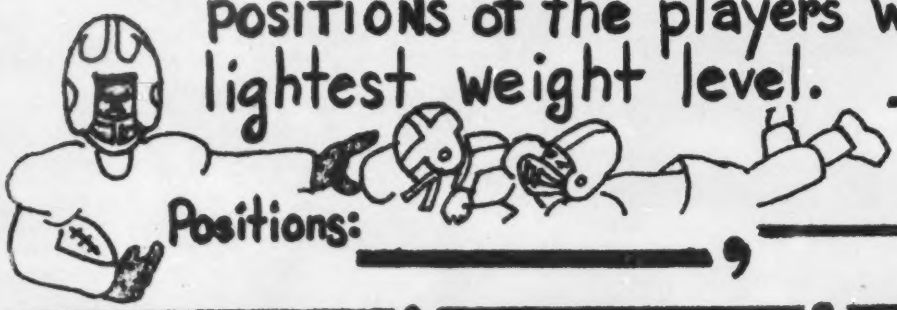
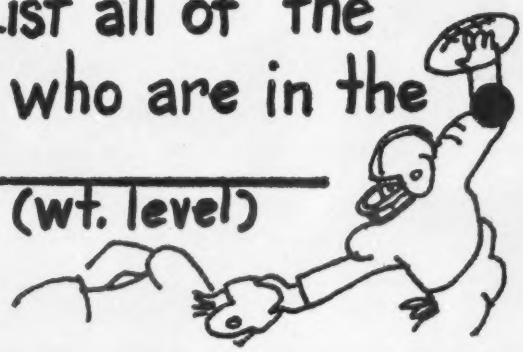
105. Look at problem #100. List all of the POSITIONS of the players who are in the lightest weight level. _____ (wt. level)



Positions: _____, _____, _____, _____, _____, _____, _____, _____.

106. Write a sentence comparing the position with the weight level. _____.

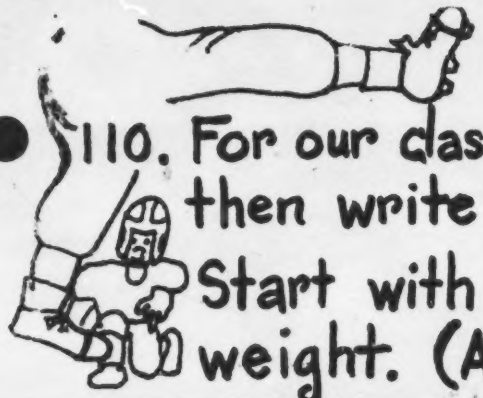
107. Look at problem #101. List all of the POSITIONS of the players who are in the heaviest weight level. _____ (wt. level)



Positions: _____, _____, _____, _____, _____, _____, _____.

108. Write a sentence comparing the position with the weight level. _____.

109. When you are an adult, what level of weight will you be in? _____



110. For our classroom, list the student's name then write his/her weight in pounds (lbs.). Start with the student with the lightest weight. (Ask volunteers only.)

NAME LAST, FIRST	WT.	NAME	WT.	NAME	WT.

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111. Who is the lightest student in our classroom? _____ ____ lbs.

112. Who is the heaviest student in our classroom? _____ ____ lbs.

113. What is the average weight of all the students in our classroom? _____ lbs.

114. Are you above or below the average? ____

115. Write the name and weight of a light student, a lighter student, and the lightest student.

	NAME	WT.
A LIGHT STUDENT		
A LIGHTER STUDENT		
THE LIGHTEST STUDENT		

116. How many pounds more does the light student weigh compared to the lighter? _____ lbs.

117. How many pounds more does the light student weigh compared to the lightest? _____ lbs.

118. How many pounds more do you weigh than the lightest student? _____ lbs.

119. Write the name and weight of a heavy student, a heavier student, and the heaviest student.

	NAME	WT.
A HEAVY STUDENT		
A HEAVIER STUDENT		
THE HEAVIEST STUDENT		

120. How many more pounds is the heavier student than the heavy one? _____ lbs.

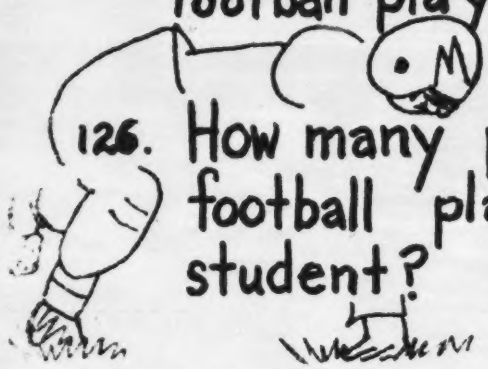
121. How many more pounds is the heaviest than the heavier? _____ lbs.

122. How many more pounds is the heaviest than the heavy? _____ lbs.

123. How many pounds LESS is the heavier to the heaviest? _____ lbs.

124. How many pounds less do you weigh compared to the heaviest student? _____ lbs.

125. How many pounds more is the lightest football player than the lightest student? ____ lbs.



126. How many pounds more is the heaviest football player than the heaviest student? _____ lbs.

127. List each pair of student and football player sharing the same weight. (or closest to that weight)

STUDENT	AND	PLAYER	WT.

128. List the top 10 heaviest students in our class and change their weight to oz., g, and kg.

NAME	POUNDS (LBS.)	OUNCES (oz.)	grams (g)	KILOGRAM (KG)

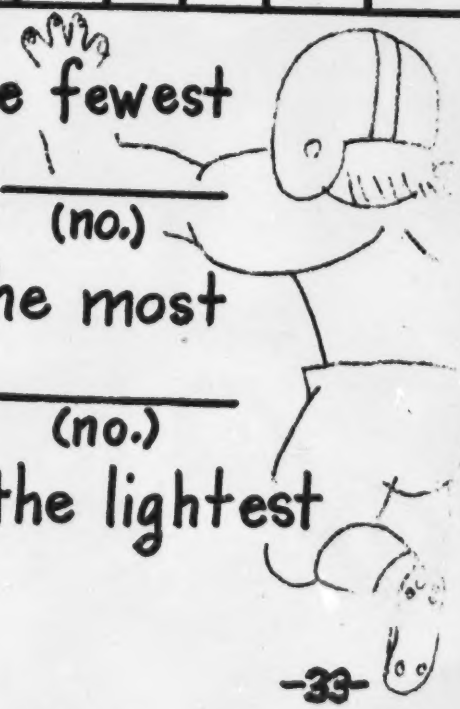
129. Make a weight chart of our students in pounds (lbs.). Color in the blocks.

NO. OF STUDENTS	50-60 lbs.	61-70	71-80	81-90	91-100	101-110	111-120	121-130	131-140	141-150	151-160	161-170	171-180	181-190	191-200
18															
17															
16															
15															
14															
13															
12															
11															
10															
9															
8															
7															
6															
5															
4															
3															
2															
1															

130. Which weight level has the fewest students? _____ (wt.) _____ (no.)

131. Which weight level has the most students? _____ (wt.) _____ (no.)

132. How many students are in the lightest weight level? _____



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133. How many students are in the heaviest level? _____.

134. What fraction of all the students in our classroom were in the weight level with the most students? (Use your answer from #129 to help you.) ___

135. What percentage is this? _____ %. (Use your answer from #131 to help you.)

136. Fill in the percentage of students found at each weight level. Don't forget to use the % sign.

50-60 lbs. _____ % 61-70 _____ 71-80 _____

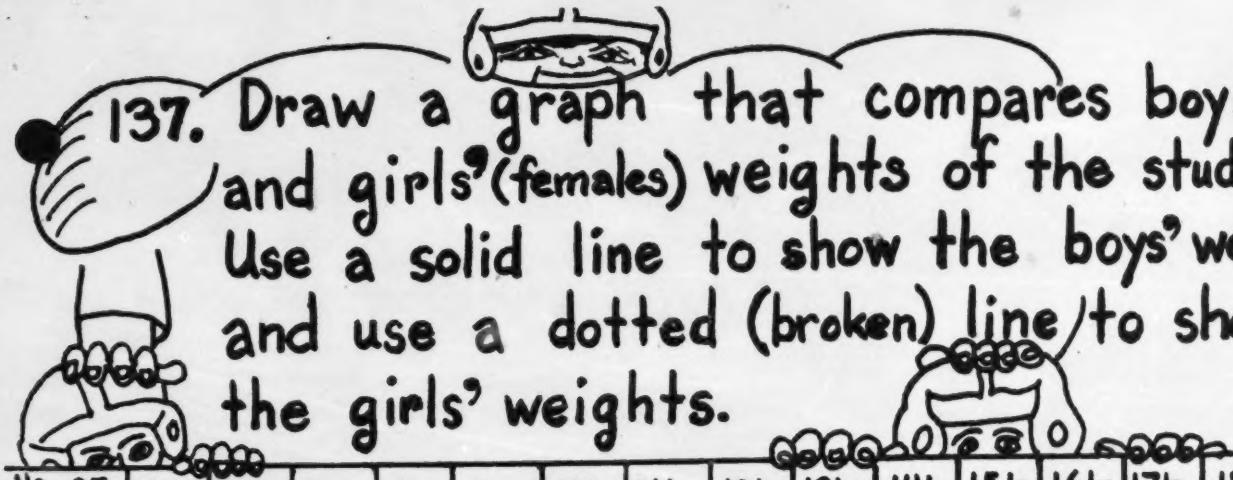
81-90 _____ 91-100 _____ 101-110 _____

111-120 _____ 121-130 _____ 131-140 _____

141-150 _____ 151-160 _____ 161-170 _____

171-180 _____ 181-190 _____ 191-200 _____

-34-



137. Draw a graph that compares boys' (males) and girls' (females) weights of the students. Use a solid line to show the boys' weights and use a dotted (broken) line to show the girls' weights.

NO. OF STUDENTS	50-60	61-70	71-80	81-90	91-100	101-110	111-120	121-130	131-140	141-150	151-160	161-170	171-180	181-190	191-200
15															
14															
13															
12															
11															
10															
9															
8															
7															
6															
5															
4															
3															
2															
1															

138. At what weight level are the two sexes (boys and girls) close together? _____

139. At what weight level are the two sexes farther apart? _____

140. Write a sentence about what you observed using this graph. _____

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141. Draw a graph that compares the players' and students' weights. Use a solid line to show the players' weights and use a dotted line to show the students' weights.

NO. OF PLAYERS AND STUDENTS	80-90	91-100	101-110	111-120	121-130	131-140	141-150	151-160	161-170	171-180	181-190	191-200	201-210	211-220	221-230
15															
14															
13															
12															
11															
10															
9															
8															
7															
6															
5															
4															
3															
2															
1															

142. Did your weight get on the graph? (yes/no).

143. At what weight level are the players and the students close together? _____

144. At what weight level are the players and students farther apart? _____

145. Write a sentence about what you observed using this graph. _____

_____.

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ITS BEING SHIPPED TO EDRS FOR FILMING.

153. Charlie gained $\frac{1}{2}$ yards each time on two carries (runs) How many total yards did he gain? _____ yds.

154. Juana gained 4 yards and $\frac{1}{2}$ yards on two carries. How many total yards did she gain? _____ yds.

155. Tommy gained $\frac{1}{3}$ and $\frac{3}{4}$ yards. How many total yards did he gain? _____ yds.

156. Willie gained $\frac{3}{4}$ but lost $\frac{1}{2}$ yards. How many total yards did he gain? _____ yds.

157. $a + 30 = 720$

If (a) equals the attendance at a football game, how many people came to the game? _____

158. Juan can throw a ball 12 yards. Alan can throw the ball four times further. How many yards can Alan throw the ball? _____ yds.

159. Miguel gained 7 yards on first down. He gained 2 more on second down. He lost 3 yards on the third down.
How many total yards did he gain? _____ yds.

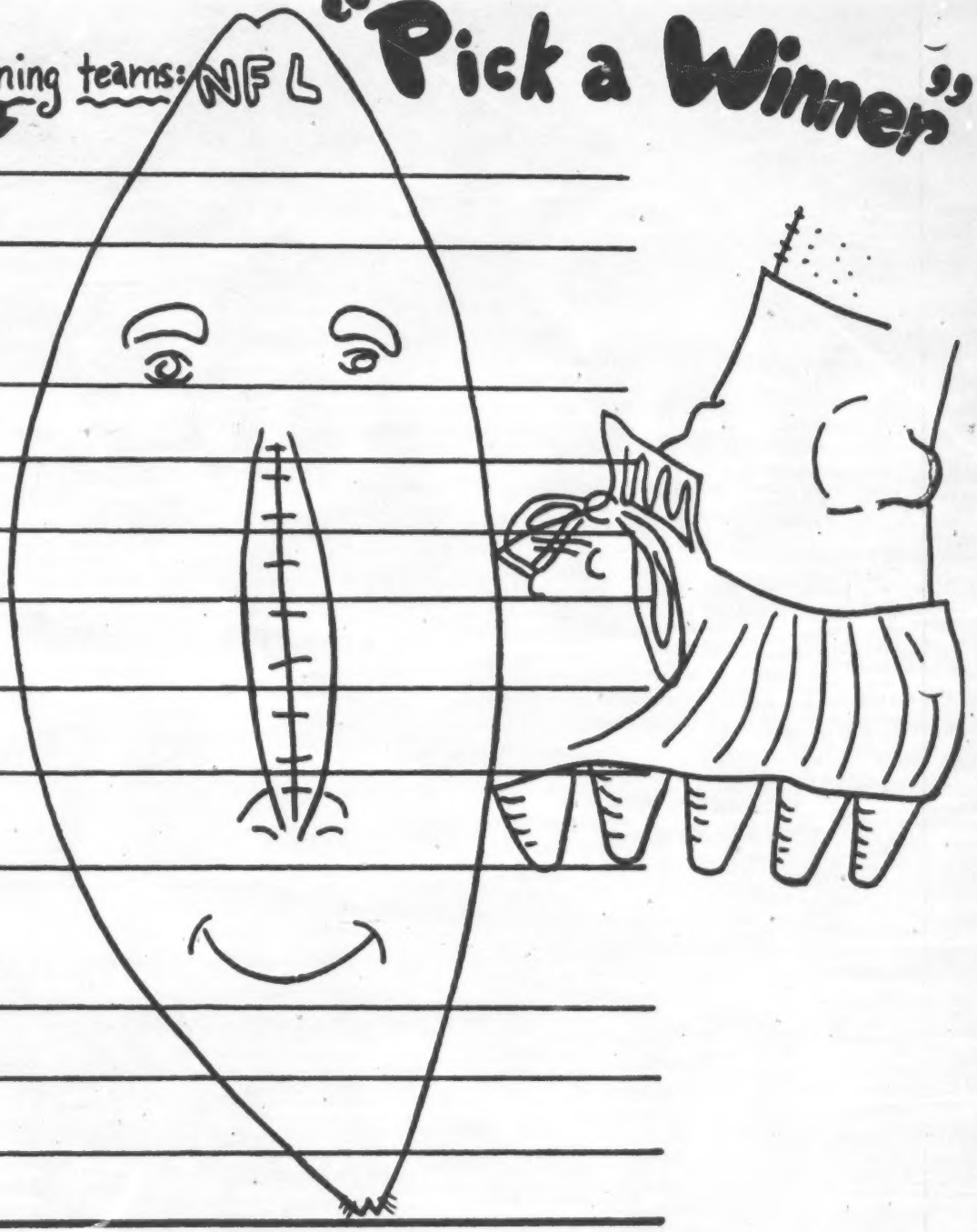
160. What was his average yards gained for each carry? _____ yds.

Name _____ Date _____

"Pick a Winner"

Write the winning teams: NFL

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. ☐ _____ VS. _____ ☐ MONDAY NIGHT'S SCORE



Total Games Correct ☐

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"Footage"

Player _____